

Brochure

VIAVI

GPSG-1000

GPS/Galileo Portable Positional Simulator

An economical simulator with high-end test capability, ideal for validating the performance of GPS enabled devices.

The VIAVI GPSG-1000 is a software upgradable, single carrier, multi-channel simulator. This versatile, time-saving test set is designed for GPS/Galileo receivers, including WAAS/EGNOS SBAS (satellite based augmentation systems) simulation.

The GPSG-1000 provides 3D positional simulation and allows any combination of visible SV's to be selected. One or two channels may be allocated to SBAS simulation.



Features

- GPS signals simulated: L1, L1C*, L2C*, L5*
- Galileo signals simulated: E1, E5**, E5a**, E5b**
- Static and dynamic simulations
- NMEA-0183 File Record and Playback functionality
- 12 channel configuration (RAIM supported)
- Programmable space vehicle (SV) parametrics and health
- User or built-in GPS receiver referenced time and date
- Remote control interface via Ethernet

*Some receivers require synchronized L1 transmissions.

**Some receivers require synchronized E1 transmissions.

Benefits

- Simultaneous GPS/Galileo simulation
- Software/firmware upgradeable
- PVT (position, velocity, time) data available via RS-232

Applications

- General testing of civil GPS and Galileo receivers
- Testing of non-encrypted military GPS receivers
- Positive Train Control
- Asset tracking and telematics
- TAWS / WAAS / GBAS / LPV / ADS-B

Ordering Information

Versions and Options

Order Number	Description
87339	GPSG-1000 12 Satellite Simulator NSN: 6625-01-616-2712
140607*	GPSGOPT3 ADS-B Integrity Test Option

*Includes cables and accessories

Standard Accessories

88493	Transit case (qty 1)
67374	Power supply
87636	Antenna coupler
90113	RX antenna
90114	Cable, coax. 50 ft.
62302	Power cord (U.S.)
64020	Power cord (European)
88753	Coupler shot bag
88037	Operation Manual (CD)
88038	Getting Started Manual (paper)

Optional Accessories

141193	GC-130 GPS Antenna Coupler Kit
91136	Kit, CPLR dual GPS antenna system
91137	Kit, CPLR triple GPS antenna system
113108	Kit, GPS receiver termination, 190 Ohms
90106	Kit, antenna coupler placement pole, 8 ft.
86196	Spare battery pack
89023	Maintenance Manual (CD)

Extended Warranty (2 year standard)

89768	36 months with scheduled calibration
89769	60 months with scheduled calibration

Physical Characteristics

Dimensions (Test set only)	11.22 x 15.15 x 3.54 in (28.5 x 38.5 x 9 cm)
Dimensions (Shipping Case)	20.8 x 31.5 x 13 in (53 x 80 x 33 cm)
Weight	15.5 lbs., 7.03 kg (test set only) 52 lbs., 23.5 kg (shipping weight)

Environmental

Operating Temp.	-20° to 55°C (-4° to 131°F)
Storage Temp.	-30°C to 71°C (-22° to 159.8°F)
Altitude	≤10,000 ft.

Test Set Certifications

MIL-PRF-28800F Class 2
MIL-STD-810F
UL,CE

For a complete certification list, see GPSG-1000 Data Sheet



Standard Accessory Kit